Applicants: Rolando Pajon Feyt, et al.

Serial No.: 10/580,888 Filing Date: May 25, 2006

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Amendment to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application:

1-31. (canceled)

- 32. (Currently amended) A method of inducing an immune response against an infection caused by <u>Neisseria meningitidis</u> or <u>Neisseria gonorrhoeae</u> bacteria <u>from a Neisseria genus</u> in a human in need thereof, comprising administering to the human an effective amount of a recombinant protein comprising an amino acid sequence set forth in SEQ ID NO.: 4.
- 33. (Canceled)
- 34. (Canceled)
- 35. (Currently amended) A method of inducing an immune response against an infection caused by <u>Neisseria meningitidis</u> or <u>Neisseria gonorrhoeae</u> bacteria <u>from a Neisseria genus</u> in a human in need thereof, comprising administering to the human an effective amount of a pharmaceutical composition comprising a recombinant protein <u>and a pharmaceutically acceptable carrier</u>, wherein the protein comprises an amino acid sequence set forth in SEQ ID NO: 4 and a pharmaceutically acceptable carrier.
- 36. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a polysaccharide antigen.
- 37. (Previously presented) The method according to claim 36, wherein the polysaccharide antigen is a capsular polysaccharide of *Neisseria meningitidis*.
- 38. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a bacterial polysaccharide-protein conjugate, wherein said protein comprises an amino acid sequence set forth in SEQ ID NO: 4.

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- 39. (Canceled)
- 40. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition further comprises a peptide antigen.
- 41. (Canceled)
- 42. (Canceled)
- 43. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition is administered parenterally.
- 44. (Previously presented) The method according to claim 35, wherein the pharmaceutical composition is administered mucosally.
- 45. (Previously presented) The method according to claim 44, wherein the pharmaceutical composition is administered orally.
- 46. (Canceled)
- 47. (New) A method of inducing an immune response against an infection caused by *Neisseria meningitidis* or *Neisseria gonorrhoeae* bacteria in a human in need thereof, comprising administering to the human an effective amount of a recombinant protein encoded by an amino acid sequence consisting of SEQ ID NO.: 4.
- 48. (New) A method of inducing an immune response against an infection caused by *Neisseria meningitidis* or *Neisseria gonorrhoeae* bacteria in a human in need thereof, comprising administering to the human an effective amount of a pharmaceutical composition comprising a recombinant protein and a pharmaceutically acceptable carrier, wherein the protein comprises an amino acid sequence set forth in SEQ ID NO: 4.